

Title (en)
DISPLAY DEVICE USING SEMICONDUCTOR LIGHT EMITTING DEVICES

Title (de)
ANZEIGEVORRICHTUNG MIT LICHEMITTIERENDEN HALBLEITERBAUELEMENTEN

Title (fr)
DISPOSITIF D'AFFICHAGE UTILISANT DES DISPOSITIFS ÉMETTEURS DE LUMIÈRE À SEMI-CONDUCTEURS

Publication
EP 2888729 A1 20150701 (EN)

Application
EP 13831405 A 20130611

Priority
• KR 20120091112 A 20120821
• KR 2013005126 W 20130611

Abstract (en)
[origin: WO2014030830A1] A display device using a semiconductor light emitting device and a method of fabricating the semiconductor light emitting device are disclosed. The display device includes a substrate, a plurality of first electrodes disposed on the substrate, an anisotropic conductive film disposed on the substrate provided with the first electrodes, a plurality of semiconductor light emitting devices disposed on the anisotropic conductive film layer, electrically connected to the first electrodes, and constituting individual pixels, and a plurality of second electrodes disposed between the semiconductor light emitting devices and electrically connected to the semiconductor light emitting devices. Thus, alignment of the semiconductor light emitting device array may be simplified by use of an anisotropic conductive film. Due to excellent brightness, the semiconductor light emitting devices, which are small in size, may form individual sub-pixels. In addition, the distance between the semiconductor light emitting devices is sufficiently long to embody a flexible display device.

IPC 8 full level
G09F 9/33 (2006.01); **H01L 25/075** (2006.01)

CPC (source: CN EP KR US)
G09F 9/33 (2013.01 - KR); **G09G 3/32** (2013.01 - KR); **H01L 25/0753** (2013.01 - CN EP US); **H01L 27/1248** (2013.01 - US); **H01L 33/486** (2013.01 - US); **H01L 33/504** (2013.01 - CN EP US); **H01L 33/507** (2013.01 - US); **H01L 33/508** (2013.01 - CN); **H01L 33/62** (2013.01 - CN EP US); **F21Y 2115/10** (2016.07 - KR); **H01L 33/508** (2013.01 - EP US); **H01L 2924/00** (2013.01 - CN US); **H01L 2924/0002** (2013.01 - CN EP US); **H01L 2933/0033** (2013.01 - US); **H01L 2933/0066** (2013.01 - US); **H05K 1/0274** (2013.01 - EP US); **H05K 1/189** (2013.01 - EP US); **H05K 3/323** (2013.01 - EP US); **H05K 3/4682** (2013.01 - EP US); **H05K 2201/10106** (2013.01 - EP US); **H05K 2201/10128** (2013.01 - EP US)

Cited by
US11189767B2; EP3394892A4; EP3550937A4; US11799063B2; WO2017112675A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014030830 A1 20140227; CN 104584110 A 20150429; CN 104584110 B 20170503; EP 2888729 A1 20150701; EP 2888729 A4 20151230; EP 2888729 B1 20180919; KR 101452768 B1 20141021; KR 20140025055 A 20140304; US 2015221619 A1 20150806; US 9391051 B2 20160712; US RE46985 E 20180807

DOCDB simple family (application)
KR 2013005126 W 20130611; CN 201380044195 A 20130611; EP 13831405 A 20130611; KR 20120091112 A 20120821; US 201314417691 A 20130611; US 201315653147 A 20130611